California **Grade 7**

LineUp With Math™ Alignment
California Mathematics Content Standards

Number Sense	
1.0 Students know the properties of, and compute with, rational numbers expressed in a variety of forms:	
Mathematics Content Standard	***LineUp With Math*™ Activities**
1.6 Calculate the percentage of increases and decreases of a quantity.	--Use an interactive simulator plus calculation worksheets to apply proportional reasoning to identify and resolve distance, rate, time conflicts in air traffic control. --Use percent relationships to resolve distance, rate, time conflicts in air traffic control.

Mathematical Reasoning	
1.0 Students make decisions about how to approach problems:	
Mathematics Content Standard	***LineUp With Math*™ Activities**
1.3 Determine when and how to break a problem into simpler parts.	--Explore and apply a variety of strategies to optimize the solution of air traffic control conflicts.
2.0 Students use strategies, skills, and concepts in finding solutions:	
Mathematics Content Standard	***LineUp With Math*™ Activities**
2.2 Apply strategies and results from simpler problems to more complex problems.	--Explore and apply a variety of strategies to optimize the solution of air traffic control conflicts.
2.5 Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, and models, to explain mathematical reasoning.	--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts. --Choose and apply a variety of strategies to optimize the solution of air traffic control conflicts.
2.8 Make precise calculations and check the validity of the results from the context of the problem.	--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.
3.0 Students determine a solution is incomplete and move beyond a particular problem by generalizing to other situations:	
Mathematics Content Standard	***LineUp With Math*™ Activities**
3.2 Note the method of deriving the solution and demonstrate a conceptual understanding of the derivation by solving similar problems.	--Explore and apply a variety of strategies to optimize the solution of air traffic control conflicts.
3.3 Develop generalizations of the results obtained and apply them in other circumstances.	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.